

# Drayer D. Sivertsen

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## Education

**Bachelor of Science, Computer Science**; GPA 3.96  
Washington State University, Pullman, WA  
President's Honor Roll, 2020 – 2022

**Expected May 2023**

## Technical Skills

C, C++, Python, C#, Haskell, HTML, CSS, Linux (Ubuntu), AWS Services, Flask, Svelte, Git  
Certifications: AWS Certified Developer – Associates, AWS Cloud Practitioner

## Work Experience

**Undergraduate Research Assistant**  
**Washington State University, Pullman, WA**

**August 2022 – Current**

- Supported research in objectively evaluating developers cognitive load by administering human experiments using FNIRs and eye tracking software
- Performed data blends using a toolkit script to process the data into an evaluable form to get instant feedback from the participant

**Cloud Support Associate Intern**  
**Amazon Web Services, Seattle, WA**

**May 2022 – August 2022**

- Demonstrated excellence in AWS CI/CD pipelines, AWS CLI, and AWS service APIs, resulting in an Associate AWS Developer certification
- Developed EC2 launch scripts to configure the instance and install an Apache web server with PHP and MariaDB, resulting in a fully functional web application scaled in 30% of the time
- Designed and hosted a WordPress site deployed through AWS Elastic Beanstalk to showcase skills acquired through the internship
- Experimented with AWS best practice by throttling a running web service with 100,000 concurrent HTTP connections and then configuring elastic load balancing to remediate the traffic effectively
- Collaborated with peers and the Amazon Web Services global team of full-time professionals as part of the AWS Cloud Support team to serve high-value customers by providing outsourced cloud expertise

## Projects

### Dell S3 Client Library

- Led a team of three in collaboration with Dell engineers to develop open-source S3 client libraries in Python and .NET to support metadata searching for Dell's ObjectScale product
- Developed proof of concept for Boto3 API call extensibility using Botocore extras processing to dynamically merge the new calls resulting in no additional changes to the original library
- Constructed Scrum Kaizen reports to make continuous improvements to the Agile sprint process, improving efficiency of subsequent sprints by 20%

### Linux File System

- Designed and implemented a Linux-compatible EXT2 file system using the C programming language to better understand the operating system's underlying mechanisms
- Replicated the functionality and operations of the Linux file system by emulating file system data structures for SuperBlock, GroupDescriptor, Bitmaps, Inode, and Directory

## Leadership

### Association for Computing Machinery of WSU | Executive Chair

- Organized the Crimson Code Hackathon for over 300 participants with a budget of \$30,000, to create an environment where participants of diverse backgrounds can enhance their programming skills

### Linux Users Group of WSU | Vice President

- Presented Linux centered topics to members on a weekly basis to promote the use of Linux and Open-Source software through education

### Teaching Assistant for Voiland College of Engineering & Architecture (Systems Programming)

- Administered weekly interviews to 30 students assessing their progression of Linux/Unix knowledge, then held office hours to further assist students as needed